abcam

ab139408

Anti-IKZF3 antibody [EPR9342(B)]

Anti-IKZF3 antibody [EPR9342(B)] (ab139408) is a rabbit monoclonal antibody detecting IKZF3 in **Western Blot, Flow Cytometry (Intra), IHC-P, ICC/IF**. Suitable for **Human, Mouse, Rat**.

- Biophysical QC for unrivalled batch-batch consistency

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR9342(B)
Purification technique	Affinity purification Protein A
Concentration	0.478 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IHC-P

Tested

Species	Mouse
Dilution info	1/50 - 1/100

Notes	**For unpurified use at 1/250 - 1/500.** Perform heat-mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Species	Rat
Dilution info	1/50 - 1/100
Notes	**For unpurified use at 1/250 - 1/500.** Perform heat-mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Species	Human
Dilution info	1/50 - 1/100
Notes	**For unpurified use at 1/250 - 1/500.** Perform heat-mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

WB

Tested

Species	Human
Dilution info	1/20000
Notes	**For unpurified use at 1/1000 - 1/10000.**

Expected

Species	Mouse, Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	1/100
Notes	**For unpurified use at 1/250 - 1/500.**

Expected

Species	Mouse, Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/10 - 1/100
Notes	ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Expected

Species	Mouse, Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

Target data

See full target information IKZF3

Function	Transcription factor that plays an important role in the regulation of lymphocyte differentiation. Plays an essential role in regulation of B-cell differentiation, proliferation and maturation to an effector state. Involved in regulating BCL2 expression and controlling apoptosis in T-cells in an IL2-dependent manner.

Storage

Shipped at conditions	Conditional Ambient
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C

Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

What is this antibody validated in?
Anti-IKZF3 antibody [EPR9342(B)] (ab139408) is a rabbit recombinant monoclonal antibody and is validated for use in Western Blot (WB), Flow Cytometry (Intra), Immunohistochemistry (IHC-P), Immunocytochemistry/immunofluorescence (ICC/IF) in Human, Mouse, Rat samples.

What is the molecular weight of IKZF3?
Anti-IKZF3 [EPR9342(B)] (ab139408) specifically detects a band for IKZF3 (UniProt: Q9UKT9) at a molecular weight of 58kDa.

Trusted by the scientific community
Anti-IKZF3 [EPR9342(B)] (ab139408) was first used in a scientific publication in 2012 and has been cited over 10 times in peer-reviewed journals.

Other related products
We have a range of other formats of antibody clone [EPR9342(B)] also available for your convenience: ab139408, Carrier free - ab192678, Alexa Fluor® 488 - ab198960, HRP - ab198961, Alexa Fluor® 647 - ab198962

Patented technology
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?
This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

We do not recommend this combination. It is not covered by our product promise.

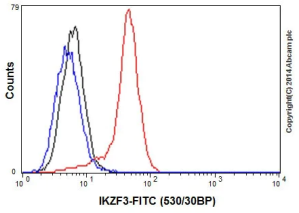
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

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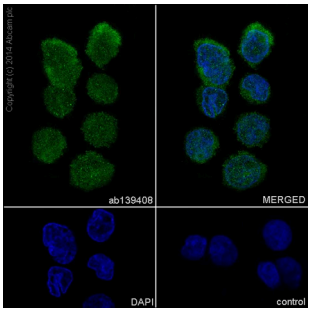
9 product images



Flow Cytometry (Intracellular) - Anti-IKZF3 antibody [EPR9342(B)] (ab139408)

IKZF3 Flow Cytometry (Intracellular) staining using rabbit Anti-IKZF3 antibody

Intracellular Flow Cytometry analysis of Ramos (Human Burkitt's lymphoma cell line cells labeling IKZF3 with purified ab139408 at 1/90 (red).
Cells were fixed with 2% paraformaldehyde. An FITC-conjugated goat anti-rabbit IgG (1/150) was used as the secondary antibody. Black - Isotype control, rabbit monoclonal IgG. Blue - Unlabeled control, cells without incubation with primary and secondary antibodies.

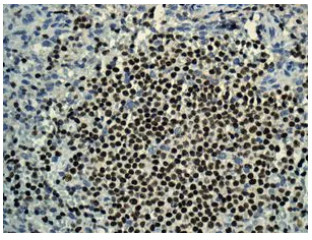


Immunocytochemistry/ Immunofluorescence - Anti-IKZF3 antibody [EPR9342(B)] (ab139408)

IKZF3 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-IKZF3 antibody

Immunocytochemistry/Immunofluorescence analysis of Jurkat (Human T cell leukemia cell line from peripheral blood) cells labeling IKZF3 (green) with purified ab139408 at 1/100.
Cells were fixed with 4% paraformaldehyde and permeabilized with 0.1% Triton X-100. ab150077, an Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/500) was used as the secondary antibody. DAPI (blue) was used as the nuclear counterstain.

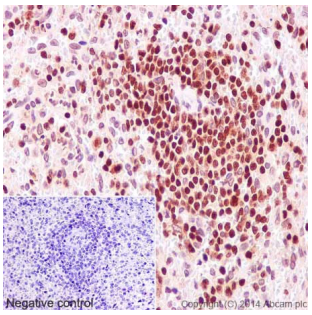
Control: Secondary antibody ab150120, an Alexa Fluor® 594-conjugated goat anti-mouse IgG (1/500).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-IKZF3 antibody [EPR9342(B)] (ab139408)

IKZF3 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-IKZF3 antibody

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human spleen tissue labeling IKZF3 with unpurified ab139408 at 1/250 dilution.
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

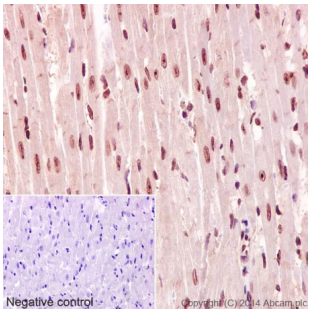


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-IKZF3 antibody [EPR9342(B)] (ab139408)

IKZF3 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-IKZF3 antibody

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human spleen tissue labeling IKZF3 with purified ab139408 at 1/100.
Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. ab97051, an HRP-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (1/500).

Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.

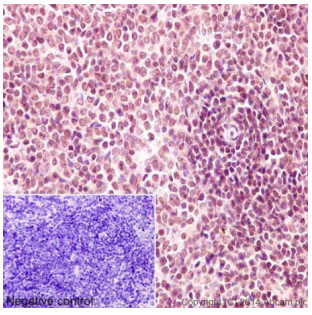


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-IKZF3 antibody [EPR9342(B)] (ab139408)

IKZF3 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-IKZF3 antibody

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of mouse cardiac muscle tissue labeling IKZF3 with purified ab139408 at 1/100.
Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. ab97051, an HRP-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (1/500).

Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.

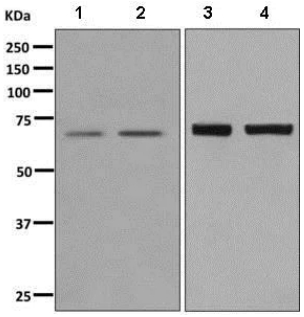


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-IKZF3 antibody [EPR9342(B)] (ab139408)

IKZF3 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-IKZF3 antibody

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of rat spleen tissue labeling IKZF3 with purified ab139408 at 1/100.
Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. ab97051, an HRP-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (1/500).

Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.



Western blot - Anti-IKZF3 antibody [EPR9342(B)] (ab139408)

All lanes:
Western blot - Anti-IKZF3 antibody [EPR9342(B)] (ab139408) at 1/1000 dilution

Lane 1:
Human thymus cell lysate at 10 µg

Lane 2:
Jurkat (Human T cell leukemia cell line from peripheral blood) cell lysate at 10 µg

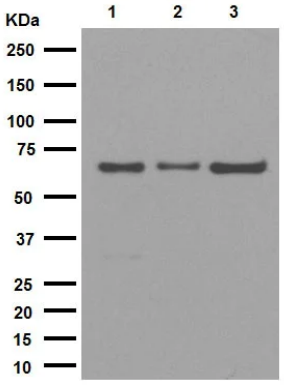
Lane 3:
Raji (Human Burkitt's lymphoma cell line) cell lysate at 10 µg

Lane 4:
Ramos (Human Burkitt's lymphoma cell line) cell lysate at 10 µg

Secondary

All lanes:
HRP labeled goat anti-rabbit at 1/2000 dilution

Predicted band size: 58 kDa



Western blot - Anti-IKZF3 antibody [EPR9342(B)] (ab139408)

Blocking/Dilution buffer and concentration: 5% NFDM/TBST.
All lanes:
Western blot - Anti-IKZF3 antibody [EPR9342(B)] (ab139408) at 1/20000 dilution

Lane 1:
Raji (Human Burkitt's lymphoma cell line) cell lysate at 20 µg

Lane 2:
Ramos (Human Burkitt's lymphoma cell line) cell lysate at 20 µg

Lane 3:
Jurkat (Human T cell leukemia cell line from peripheral blood) cell lysate at 20 µg

Secondary

All lanes:
Peroxidase conjugated goat anti-rabbit IgG (H+L) at 1/1000 dilution

Predicted band size: 58 kDa

Observed band size: 70 kDa

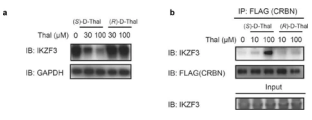


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Western blot - Anti-IKZF3 antibody [EPR9342(B)] (ab139408)

IKZF3 western blot using anti-IKZF3 antibody [EPR9342(B)] ab139408. Publication image and figure legend from Mori, T., Ito, T., et al., 2018, Sci Rep, PubMed 29358579.

ab139408 was used in this publication in western blot. This may not be the same as the application(s) guaranteed by Abcam. For a full list of applications guaranteed by Abcam for ab139408 please see the product overview.

Effects of deuterium-substituted (S)- and (R)-thalidomides on IKZF3 degradation and CRBN-IKZF3 binding. (a) Effects of deuterated (S)- and (R)-thalidomide enantiomers, (S)-D-Thal and (R)-D-Thal, on IKZF3 protein levels in MM1S cells after 12-h treatment. IB, immunoblot. (b) Co-immunoprecipitation of FLAG-HA-CRBN in the presence of each deuterated thalidomide enantiomer, (S)-D-Thal or (S)-D-Thal. IP, immunoprecipitation. Full-length blots in (a) and (b) are presented in Supplementary Fig. 9.

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